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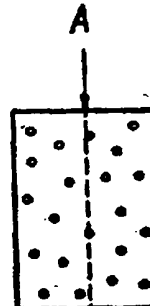
APPLICATION DATE : 25-12-80
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

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TITLE : LAMINATION OF PIEZOELECTRIC
CERAMIC GREEN SHEET



ABSTRACT : PURPOSE: To obtain piezoelectric ceramics having abundant homogeneity by a method wherein piezoelectric ceramic green sheets are adhered by applying paste containing the ceramic powder of the same component to the sheets.

CONSTITUTION: Vinyl acetate resin of 30g is dissolved in methanol of 200g and stirring paste is made by adding $\text{PbTi}_{0.49}\text{Zr}_{0.51}\text{O}_5$ powder of 100g to the methanol. The pasted is applied to each ceramic green sheet of the same composition and having a thickness of 0.5mm by about 5μ in thickness and sheets are stacked to stick together by pressurizing with a pressure of 100kg/cm^3 . Then, the sheets are punched by a metal mold to complete piezoelectric ceramics by sintering for one hour at $1,200^\circ\text{C}$. In this composition, ceramics with very good homogeneity are obtained by a very simple means and pore distribution at the pasted surface is scarcely changed comparing with other parts.

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